

A two-phase and diffusion transport model for the migration of high-density organic liquids in heterogeneous aquifers

Chekalin A., Khramchenkov M., Konyukhov V.
Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

A new mathematical model describing the migration of high-density organic liquids in heterogeneous aquifers is presented. The model consists of interconnected equations of two-phase filtration and diffusion at the interface of the two liquids. The features of the different cases of pollutant migration are analyzed on the basis of computer simulation.
